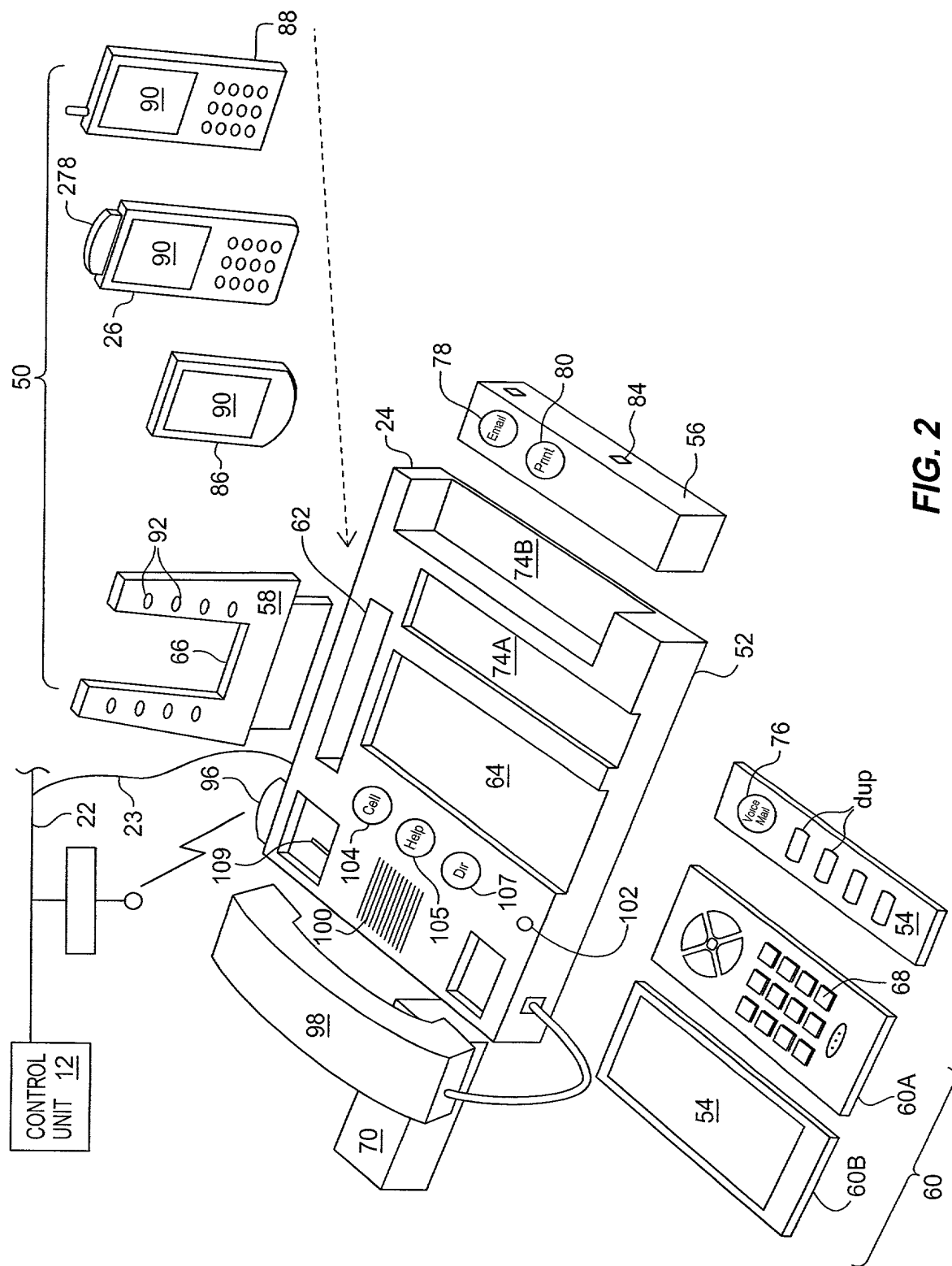


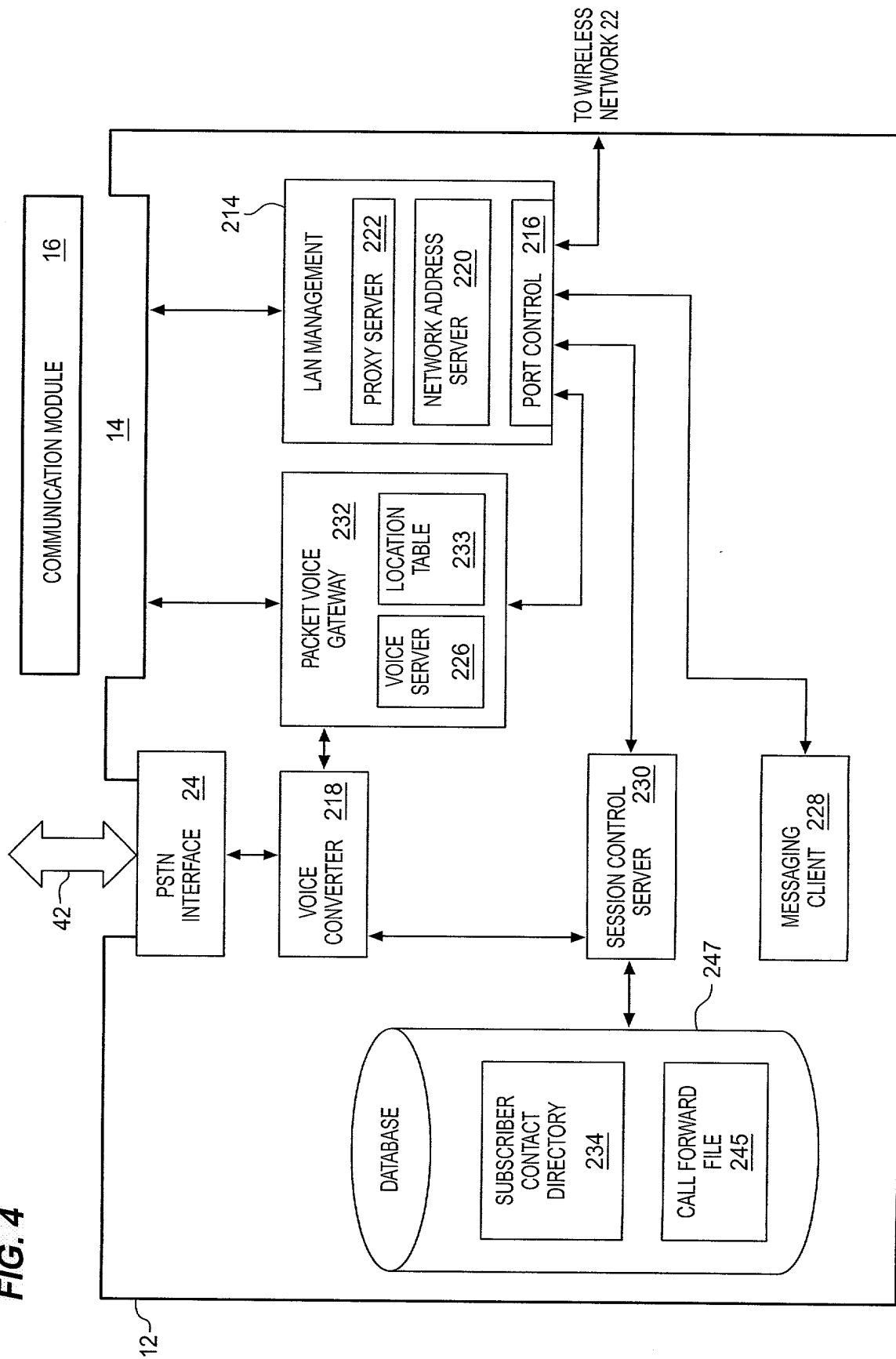
FIG. 1

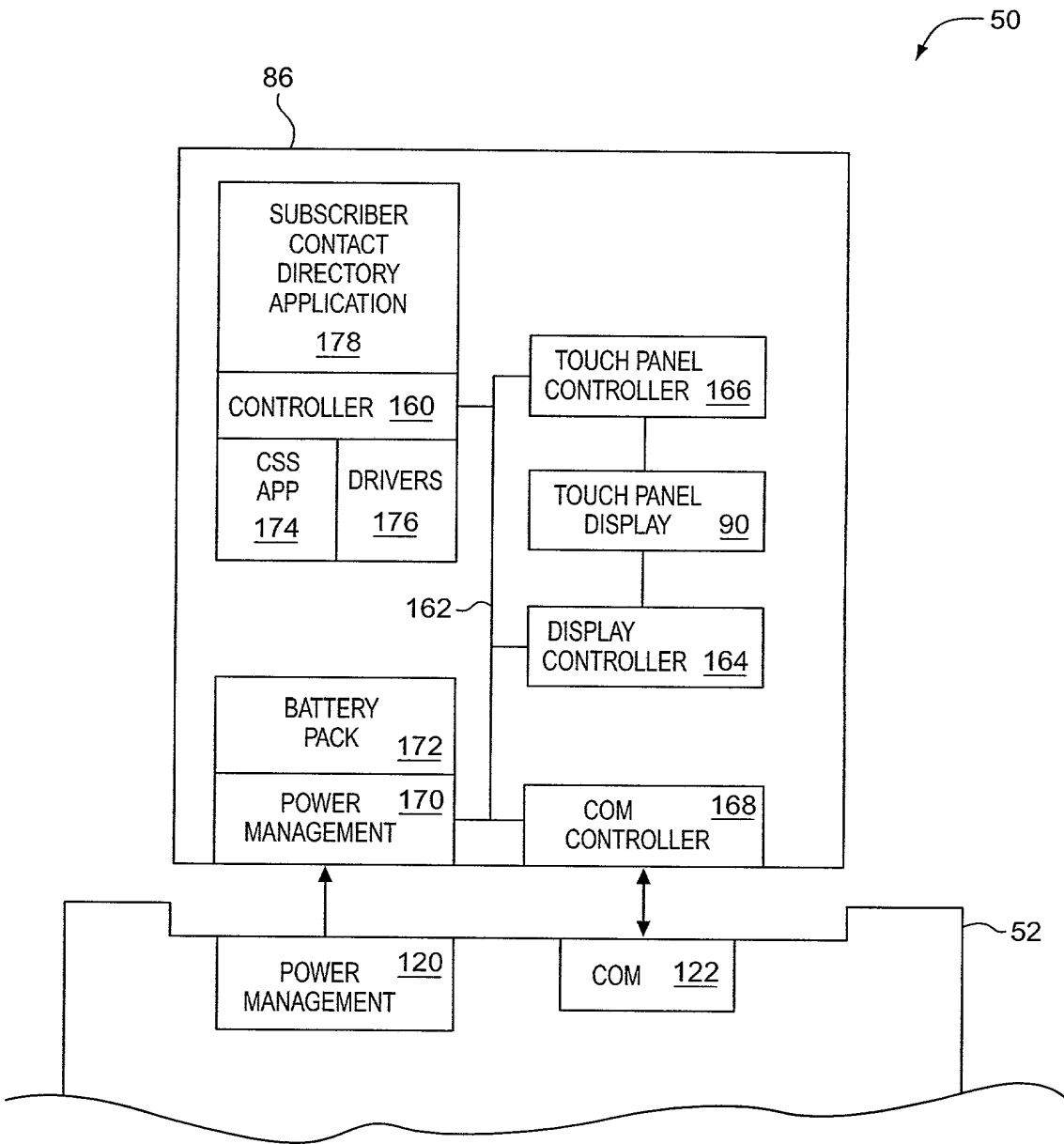


**FIG. 2**



FIG. 4





**FIG. 5**

FIG. 6

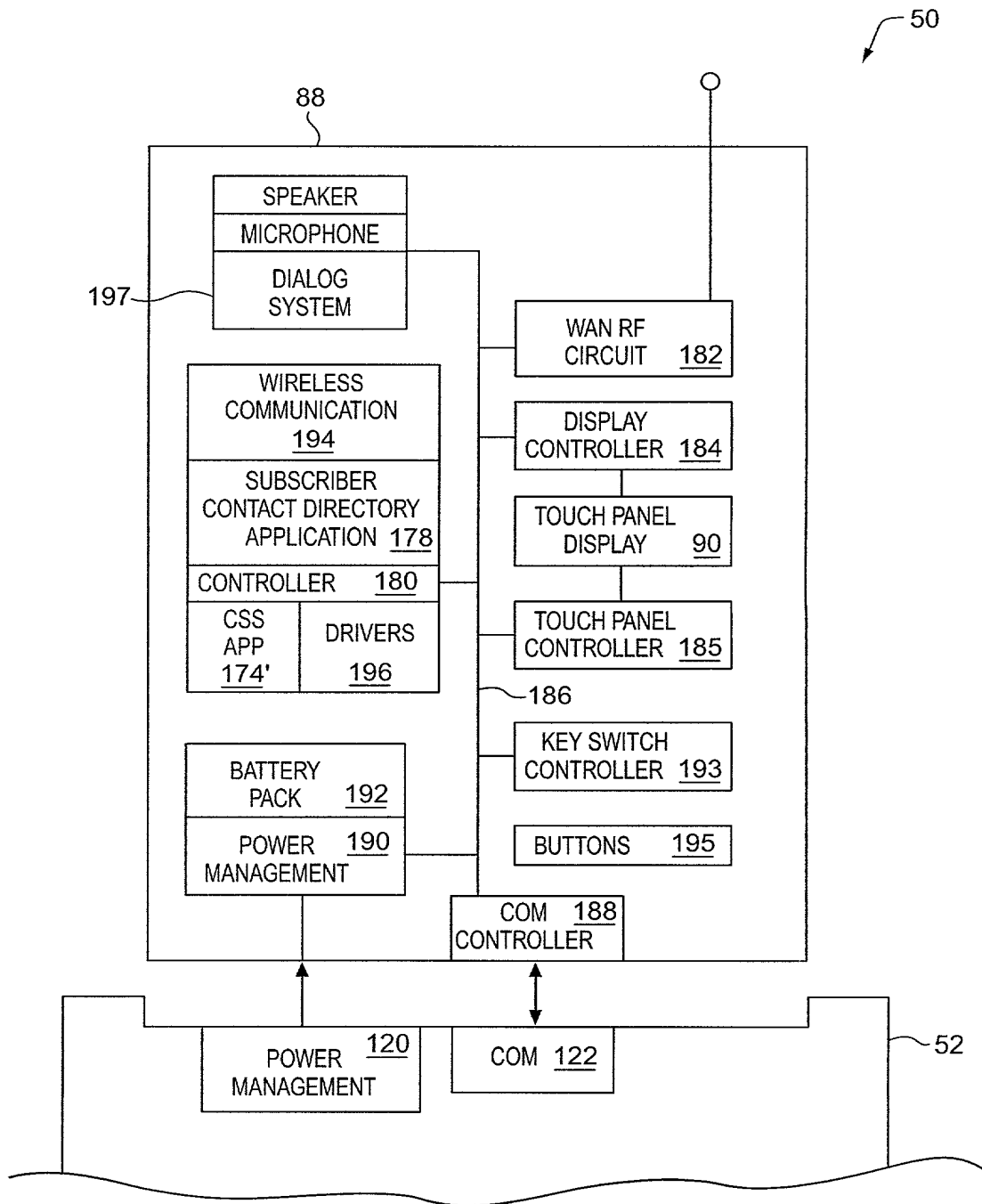
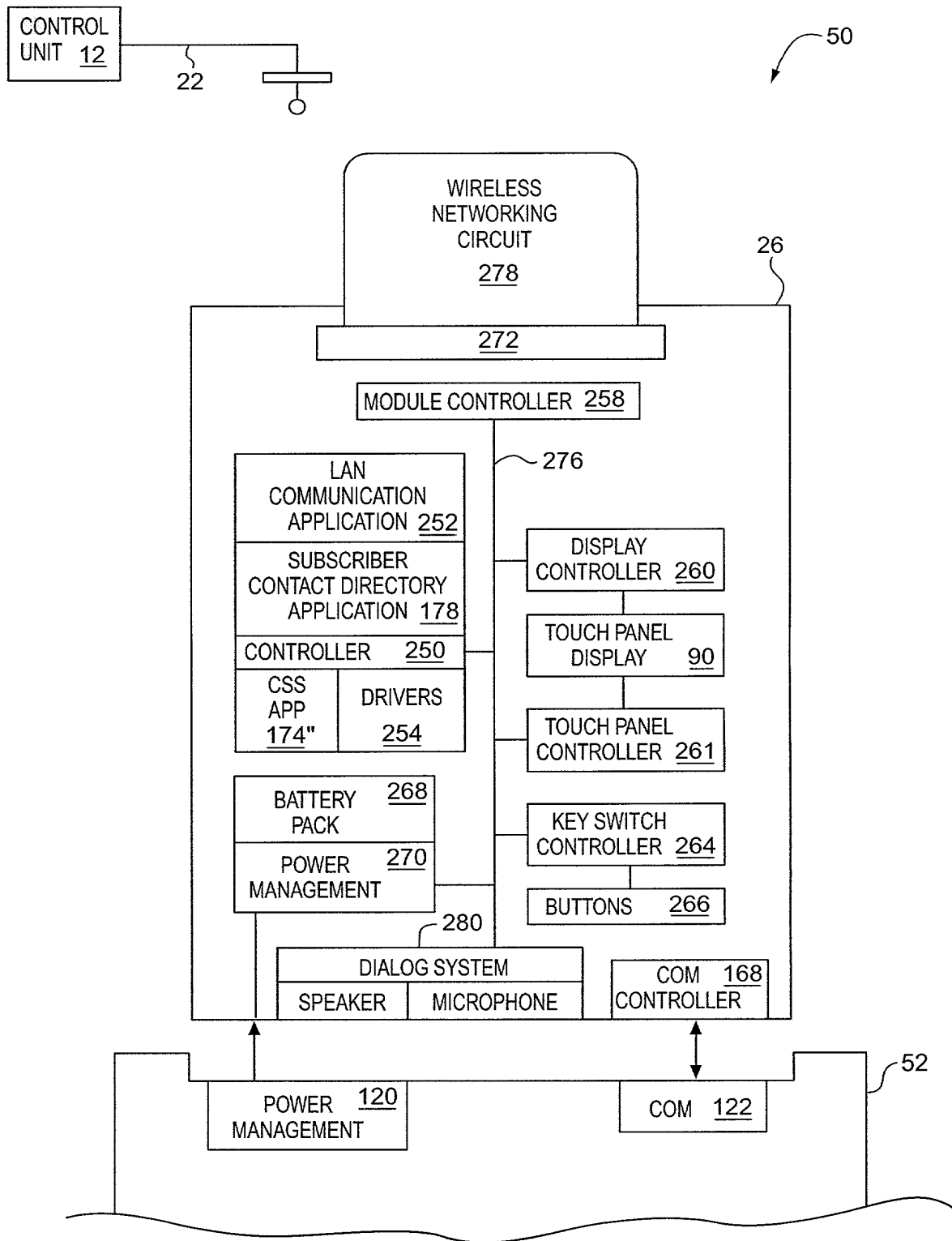


FIG. 6



**FIG. 7**

START UP STATE - WAITING FOR EVENTS	
EVENTS	STEPS
300 OPEN SESSION REQUEST ON PREDETERMINED PORT	<ul style="list-style-type: none"> <li>• ESTABLISH NEW LOCAL COMMUNICATION              DEVICE STATE MACHINE</li> <li>• ESTABLISH SESSION</li> <li>• SEND LOGON CONTROL SCRIPTS</li> <li>• GET CSS INTERFACE CONFIGURATION</li> <li>• PROVIDE MAIN MENU DISPLAY CONTENT</li> <li>• PROVIDE MAIN MENU LAYOUT CONTROL</li> <li>• GO TO MAIN MENU STATE</li> </ul>

**FIG. 8A**



304		MAIN MENU STATE - WAITING FOR EVENTS	
		EVENTS	STEPS
302		MENU SELECTION	<ul style="list-style-type: none"> <li>• GO TO SELECTED STATE</li> </ul>
308		INITIALIZE WAN SUBSCRIBER DEVICE	<ul style="list-style-type: none"> <li>• SEND ID EXTRACTION CONTROL SCRIPTS</li> <li>• GET SUBSCRIBER DEVICE ID</li> <li>• UPDATE NETWORK LOCATION TABLE</li> <li>• SYNCHRONIZE SUBSCRIBER CONTACT DIRECTORY</li> <li>• PROVIDE INITIAL DISPLAY CONTENT (MAIN MENU)</li> <li>• PROVIDE DISPLAY LAYOUT CONTROL</li> <li>• ESTABLISH SESSION WITH WAN CONTROLLER</li> <li>• PROVIDE CALL FORWARD SIGNALS TO WAN CONTROLLER</li> <li>• GO TO SUBSCRIBER DEVICE MAIN MENU STATE</li> </ul>
310		HELP REQUEST	<ul style="list-style-type: none"> <li>• SET UP AUDIO SESSION CHANNEL</li> <li>• TO AUDIO HELP CSS</li> <li>• GO TO AUDIO HELP STATE</li> </ul>

**FIG. 8B**

316	SUBSCRIBER DEVICE MAIN MENU STATE - WAITING FOR EVENTS	
	EVENTS	STEPS
312	MENU SELECTION	• GO TO SELECTED STATE
320	HELP REQUEST	• PROVIDE HELP MENU DISPLAY CONTENT • PROVIDE HELP MENU DISPLAY LAYOUT CONTROL • GO TO GRAPHIC HELP STATE
322	MESSAGE REQUEST	• GET MESSAGES FROM REMOTE SYSTEM • SORT MESSAGES BY TYPE • PROVIDE MESSAGE LIST CONTENT
324	AUDIO MESSAGE REQUEST	• PROVIDE MESSAGE LIST LAYOUT CONTROL • GO TO MESSAGE LIST STATE
314	DIRECTORY REQUEST	• PROVIDE DIRECTORY CONTENT AND LAYOUT CONTROL • TRANSITION TO SUBSCRIBER DIRECTORY STATE
326	SUBSCRIBER DEVICE REMOVE	• ESTABLISH SESSION WITH WAN CONTROLLER • PROVIDE TERMINATE CALL FORWARD SIGNAL TO WAN CONTROLLER • GO TO MAIN MENU STATE

**FIG. 8C**

328

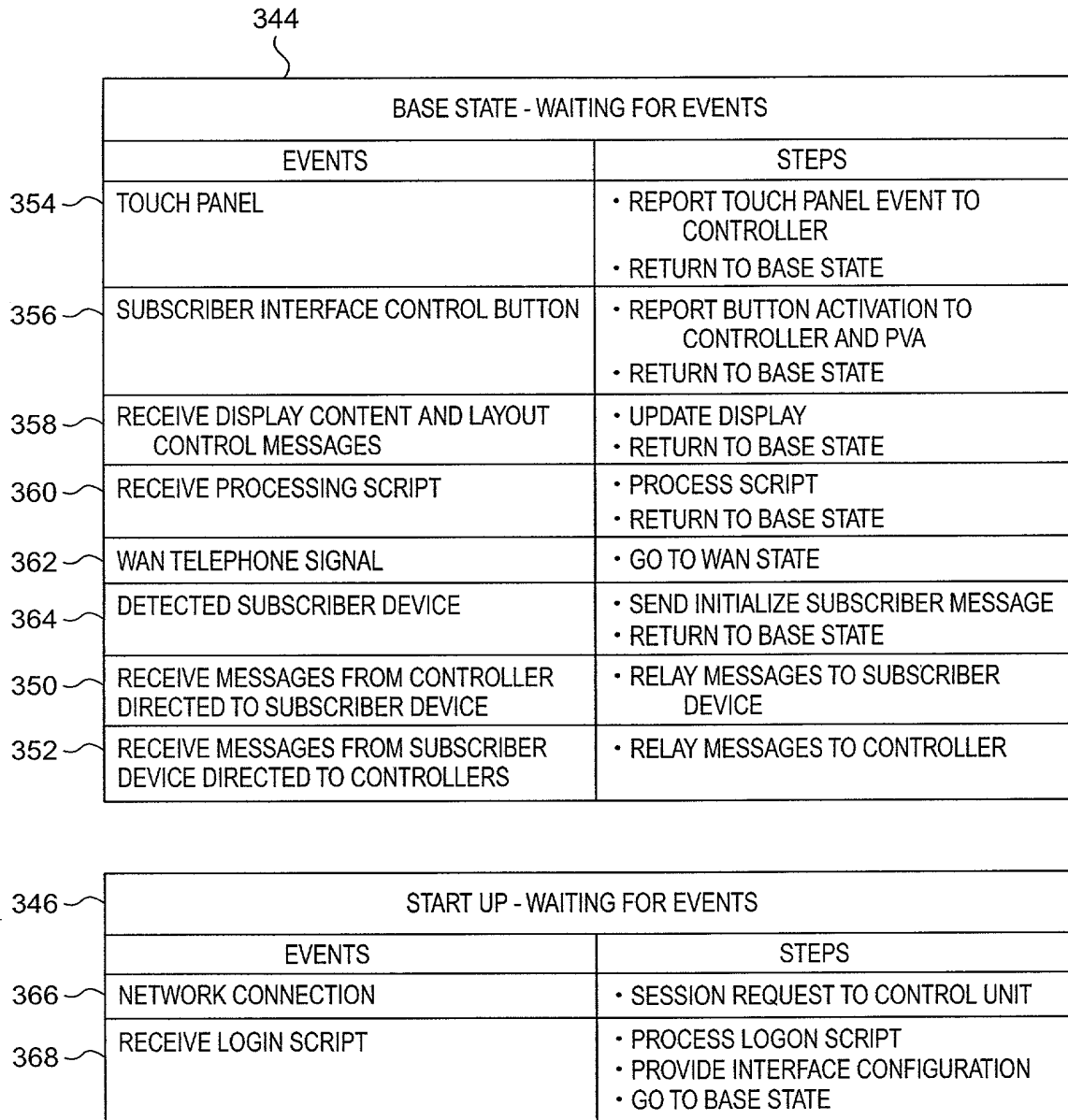
MESSAGE LIST STATE - WAITING FOR EVENTS	
EVENTS	STEPS
334 AUDIO MESSAGE SELECT	<ul style="list-style-type: none"> <li>• SEND AUDIO FILE TO CSS</li> <li>• PROVIDE PROCESSING SCRIPT TO OUTPUT FILE</li> <li>• GO TO AUDIO SESSION STATE</li> </ul>
336 MESSAGE SELECT	<ul style="list-style-type: none"> <li>• PROVIDE MESSAGE DISPLAY CONTENT</li> <li>• PROVIDE MESSAGE DISPLAY LAYOUT CONTROL</li> <li>• GO TO MESSAGE DISPLAY STATE</li> </ul>
338 MESSAGE PRINT	<ul style="list-style-type: none"> <li>• FORMAT MESSAGE CONTENT FOR PRINTER</li> <li>• SEND MESSAGE FILE TO PRINTER</li> <li>• GO TO MESSAGE LIST STATE</li> </ul>
340 HELP REQUEST	<ul style="list-style-type: none"> <li>• PROVIDE HELP MENU DISPLAY CONTENT AND DISPLAY LAYOUT CONTROL</li> <li>• GO TO GRAPHIC HELP STATE</li> </ul>
342 SUBSCRIBER DEVICE REMOVE	<ul style="list-style-type: none"> <li>• ESTABLISH SESSION WITH WAN CONTROLLER</li> <li>• PROVIDE TERMINATE CALL FORWARD SIGNAL TO WAN CONTROLLER</li> <li>• GO TO MAIN MENU STATE</li> </ul>

**FIG. 8D**

FIG. 8E

370		SUBSCRIBER DIRECTORY STATE - WAITING FOR EVENTS	
		EVENTS	STEPS
372	RECEIVE CONTACT SELECTION	<ul style="list-style-type: none"><li>• PROVIDE CONTROL SCRIPT TO SETUP AUDIO SESSION WITH CONTACT</li><li>• PROVIDE AUDIO SESSION DISPLAY CONTENT AND LAYOUT CONTROL</li><li>• TRANSITION TO AUDIO SESSION STATE</li></ul>	
374	HELP REQUEST	<ul style="list-style-type: none"><li>• PROVIDE HELP MENU DISPLAY CONTENT AND DISPLAY LAYOUT CONTROL</li><li>• GO TO GRAPHIC HELP STATE</li></ul>	
378	SUBSCRIBER DEVICE REMOVE	<ul style="list-style-type: none"><li>• ESTABLISH SESSION WITH WAN CONTROLLER</li><li>• PROVIDE TERMINATE CALL FORWARD SIGNAL TO WAN CONTROLLER</li><li>• GO TO MAIN MENU STATE</li></ul>	

**FIG. 8E**



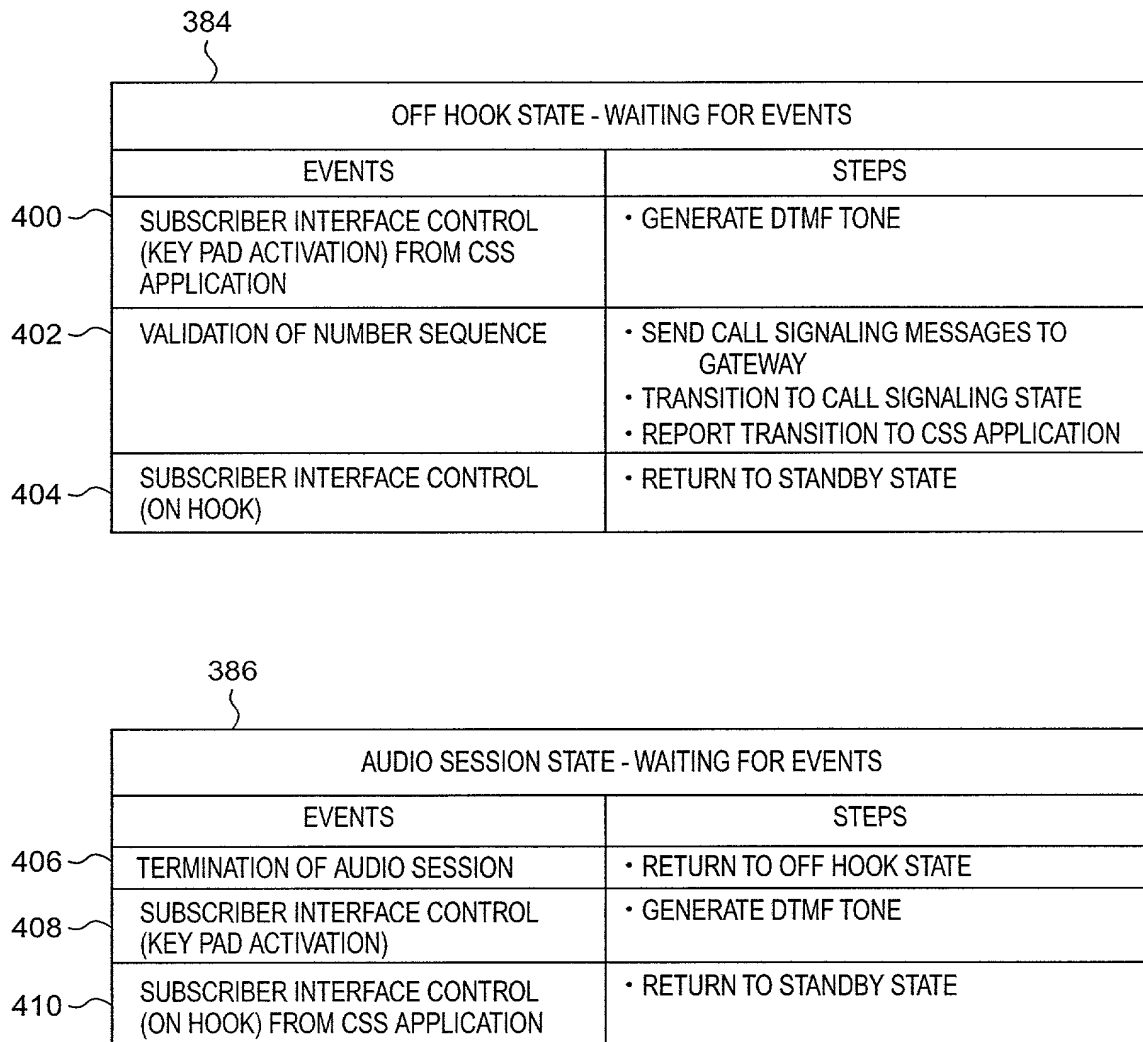
**FIG. 9**

FIG. 10A

380									
STANDBY STATE - WAITING FOR EVENTS									
	<table><tr><th>EVENTS</th><th>STEPS</th></tr><tr><td>388 AUDIO SESSION SIGNAL FROM PACKET VOICE GATEWAY</td><td><ul style="list-style-type: none"><li>• TRANSITION TO CALL SIGNALING STATE</li><li>• REPORT STATE TRANSITION TO CSS APPLICATION</li></ul></td></tr><tr><td>390 SUBSCRIBER INTERFACE CONTROL (OFF HOOK)</td><td><ul style="list-style-type: none"><li>• TRANSITION TO OFF HOOK STATE</li><li>• REPORT STATE TRANSITION TO CSS APPLICATION</li></ul></td></tr><tr><td>392 SESSION SETUP EVENT FROM CSS APPLICATION</td><td><ul style="list-style-type: none"><li>• SEND CALL SIGNALING MESSAGE TO GATEWAY</li><li>• TRANSITION TO CALL SIGNALING STATE</li><li>• REPORT TRANSITION TO CSS</li></ul></td></tr></table>	EVENTS	STEPS	388 AUDIO SESSION SIGNAL FROM PACKET VOICE GATEWAY	<ul style="list-style-type: none"><li>• TRANSITION TO CALL SIGNALING STATE</li><li>• REPORT STATE TRANSITION TO CSS APPLICATION</li></ul>	390 SUBSCRIBER INTERFACE CONTROL (OFF HOOK)	<ul style="list-style-type: none"><li>• TRANSITION TO OFF HOOK STATE</li><li>• REPORT STATE TRANSITION TO CSS APPLICATION</li></ul>	392 SESSION SETUP EVENT FROM CSS APPLICATION	<ul style="list-style-type: none"><li>• SEND CALL SIGNALING MESSAGE TO GATEWAY</li><li>• TRANSITION TO CALL SIGNALING STATE</li><li>• REPORT TRANSITION TO CSS</li></ul>
EVENTS	STEPS								
388 AUDIO SESSION SIGNAL FROM PACKET VOICE GATEWAY	<ul style="list-style-type: none"><li>• TRANSITION TO CALL SIGNALING STATE</li><li>• REPORT STATE TRANSITION TO CSS APPLICATION</li></ul>								
390 SUBSCRIBER INTERFACE CONTROL (OFF HOOK)	<ul style="list-style-type: none"><li>• TRANSITION TO OFF HOOK STATE</li><li>• REPORT STATE TRANSITION TO CSS APPLICATION</li></ul>								
392 SESSION SETUP EVENT FROM CSS APPLICATION	<ul style="list-style-type: none"><li>• SEND CALL SIGNALING MESSAGE TO GATEWAY</li><li>• TRANSITION TO CALL SIGNALING STATE</li><li>• REPORT TRANSITION TO CSS</li></ul>								

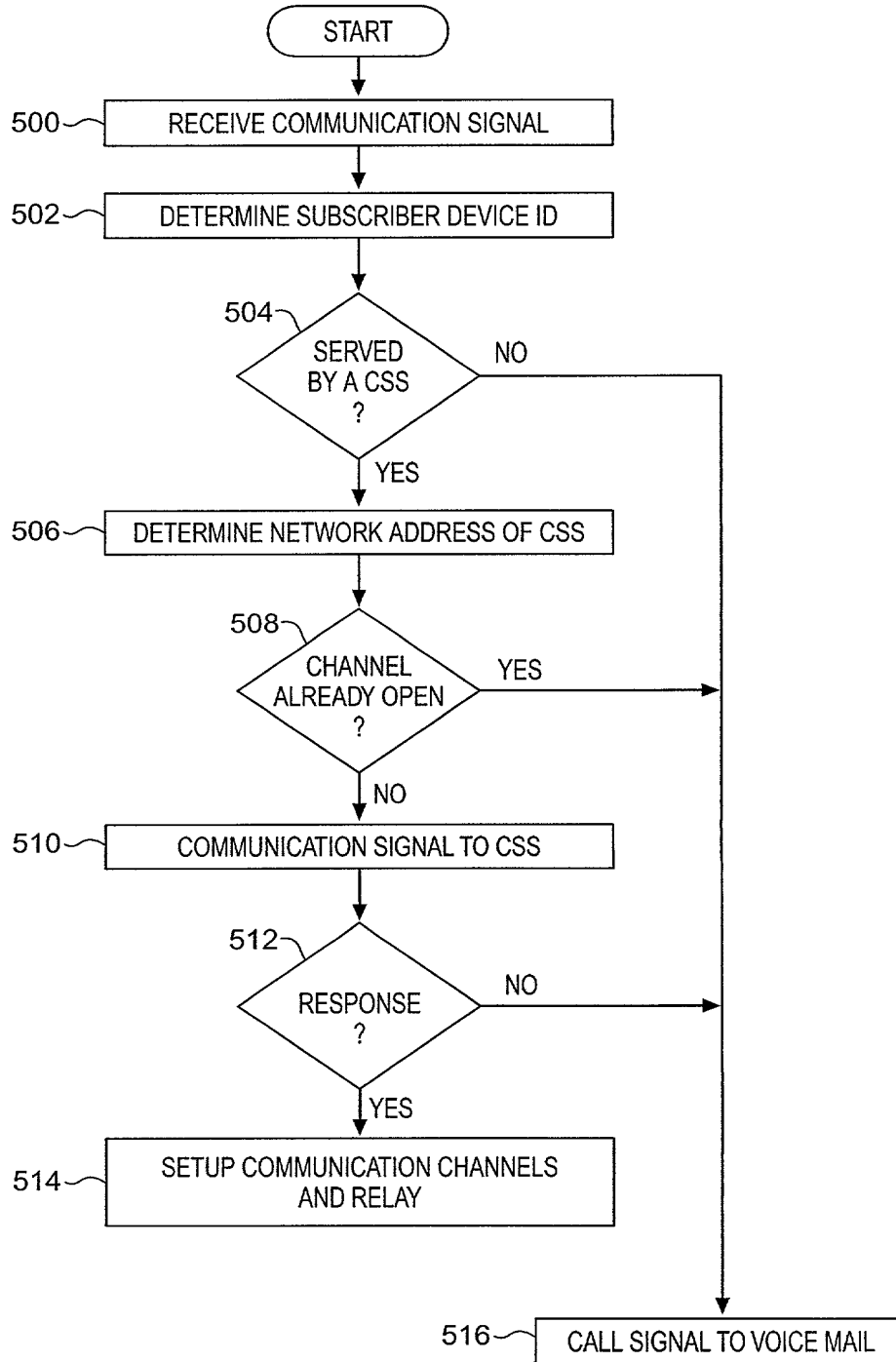
382									
CALL SIGNALING STATE - WAITING FOR EVENTS									
	<table><tr><th>EVENTS</th><th>STEPS</th></tr><tr><td>394 ON HOOK EVENT</td><td><ul style="list-style-type: none"><li>• RETURN TO STANDBY STATE</li><li>• REPORT STATE TRANSITION TO CSS APPLICATION</li></ul></td></tr><tr><td>396 TERMINATION OF SIGNALING</td><td><ul style="list-style-type: none"><li>• RETURN TO STANDBY STATE</li><li>• REPORT STATE TRANSITION TO CSS APPLICATION</li></ul></td></tr><tr><td>398 READY FOR AUDIO SESSION</td><td><ul style="list-style-type: none"><li>• TRANSITION TO AUDIO SESSION STATE</li><li>• REPORT STATE TRANSITION TO CSS APPLICATION</li></ul></td></tr></table>	EVENTS	STEPS	394 ON HOOK EVENT	<ul style="list-style-type: none"><li>• RETURN TO STANDBY STATE</li><li>• REPORT STATE TRANSITION TO CSS APPLICATION</li></ul>	396 TERMINATION OF SIGNALING	<ul style="list-style-type: none"><li>• RETURN TO STANDBY STATE</li><li>• REPORT STATE TRANSITION TO CSS APPLICATION</li></ul>	398 READY FOR AUDIO SESSION	<ul style="list-style-type: none"><li>• TRANSITION TO AUDIO SESSION STATE</li><li>• REPORT STATE TRANSITION TO CSS APPLICATION</li></ul>
EVENTS	STEPS								
394 ON HOOK EVENT	<ul style="list-style-type: none"><li>• RETURN TO STANDBY STATE</li><li>• REPORT STATE TRANSITION TO CSS APPLICATION</li></ul>								
396 TERMINATION OF SIGNALING	<ul style="list-style-type: none"><li>• RETURN TO STANDBY STATE</li><li>• REPORT STATE TRANSITION TO CSS APPLICATION</li></ul>								
398 READY FOR AUDIO SESSION	<ul style="list-style-type: none"><li>• TRANSITION TO AUDIO SESSION STATE</li><li>• REPORT STATE TRANSITION TO CSS APPLICATION</li></ul>								

**FIG. 10A**



**FIG. 10B**

**FIG. 11**





233

SUBSCRIBER IDENTIFIER 237			CURRENT NETWORK LOCATION TABLE	
SUBSCRIBER ID	SUBSCRIBER NAME	SUBSCRIBER DEVICE ID	CURRENT NETWORK ADDRESS	
1234	BOB	001	192.168.abc.xyz	
1235	CHRIS	002	192.168.def.uvw	
1236	MARVIN	003	Open	
.	.	.	.	
.	.	.	.	
.	.	.	.	

FIG. 12

CALL FORWARD FILE 245					
SUBSCRIBER DEVICE ID CODE 518	DESIGNATED NUMBER 520	WAN CONTROLLER 522	CALL FORWARD COMMAND 524	DEACTIVATE COMMAND 526	
001	330-555-1234	123.456.789.000	CHARACTER STRING	CHARACTER STRING	
002	330-555-1235	941-555-0000	*71*3305551235	*70*3305551235	
003	330-555-1236	330-555.1236	*65*3305551236	*60#	
.	.	.	.	.	
.	.	.	.	.	
.	.	.	.	.	

FIG. 13